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STAAS &	HALSEY	LLP		MANNING, JOHN		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	Applicant(s)					
John Manning			09/750,049	SUZUKI, MOTOYOSHI					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherized for ten may be available under the provision of 3 CFR 1.3(d), in no event, however, may a reply be timely filed ### The period for reply specified above is less than thiny (30) days, a reply within the statulatory printing within the period for reply specified above is the shart him (30) days and will enter 5 (s) MONTHS from the mailing date of this communication is printing to reply specified above is the shart birth mailing date of the communication of the period for reply and will enter 5 (s) MONTHS from the mailing date of this communication is printing to reply within the statulatory printing will will be printing to the period for reply and will enter 5 (s) MONTHS from the mailing date of this communication is printing to reply within the statulatory printing and an advantage of the communication of the period for reply within the statulatory printing and an advantage of the communication of the period of the communication of the period for reply within the statulatory printing and the period of the communication of the communication of the period of the period of the communication of the period of the communication of the period of t		Office Action Summary	Examiner	Art Unit					
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some C None of: 1 Certified copies of the priority documents have been received in Application No. 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	Status								
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Baum et al (US Pat No 5,868,578).

In regard to claim 1, the claimed limitation of "an input unit inputting segmentation information indicating a time slice for each piece of picture data continuous time series about subject, and retrieval data indicating an attribute of the subject corresponding each piece of picture data assigned to each time slice" is met by Figures 2, 7 and 11A-D. "The video cameras are preferably high-speed digital type cameras facilitating recording at a rate of 1,000 frames per second or greater. Such cameras, which may be purchased from the Kodak Company as Model Ektapro may be used to measure all pitched and batted ball characteristics, including speeds, pitcher movements, pitch type, location at the batter, and direction of hit" (Col 3, Lines 54-59). "FIGS. 11A to 11D depict a variety of batter images captured according to the invention along with statistical data superimposed thereon" (Col 6, Lines 46-48). The claimed limitation of "a storage segmenting the continuous picture data according the segmentation information, associating each piece of picture data obtained by segmenting data with corresponding retrieval data, and storing associated data" is also met Figures 2, 7 and

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11A-D. "Each device is continuously monitored by the computer system 110, and once the devices are set out in the evaluation area, all devices make completely automatic measurements of each pitch and hit without any action of the operator" (Col 3, Lines 48-52). "The sequence of video pictures or frames seen by the side-view camera for ball position 0 through 5 is shown in the sketches in the bottom of FIG. 2. In frame 0 the camera sees the background but no ball. In all other frames, the camera sees both the background and the ball, with the ball appearing in different locations as it passes by the camera. In frames 1, 2 and 3, the pitch passes in front of the camera from right to left. The batted ball, seen in frames 4 and 5, pass from left to right" (Col 4, Lines 17-25).

In regard to claims 2-4, the claimed limitation of "said subject is a player of a ball game being performed, and said retrieval data contains information about a delivery of a ball", "said subject is a player of a ball game being performed, and said retrieval data contains information about a course of a ball" and "said subject is a player of a ball game being performed, and said retrieval data contains information about a play state in the play of the ball game" are met by Figure 1. "In a baseball environment, then, the system may be used to provide all relevant information on how the hitter and/or pitcher move, including all relevant steps associated with the pitch and hit of the ball, including all relevant movements of the ball itself" (Col 3, Lines 35-39). Furthermore, "the invention may be used to surreptitiously analyze the performance of players without them knowing it, for example, on an opposing team" (Col 6, Lines 50-53).

In regard to claims 5 and 6, the claimed limitation of "said segmentation information comprises a record starting time and a record ending time which are

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absolute times" and "said subject a player of ball game being performed, and said record starting time said record ending time are record starting time and a record ending time each delivery of a ball" are met by Figures 11A-D. Figure 10 depicts the relative recorded times with respect to the windup. Figures 11A-D shows the recorded absolute time in the upper left corner.

In regard to claim 7, the claimed limitation of "an input unit inputting common segmentation information indicating a time slice common to plural different pieces of picture data continuous in time series about a subject, and retrieval data indicating an attribute of the subject corresponding to each piece of picture data assigned to each time slice" is met by Figures 2, 7 and 11A-D. "The video cameras are preferably highspeed digital type cameras facilitating recording at a rate of 1,000 frames per second or greater. Such cameras, which may be purchased from the Kodak Company as Model Ektapro may be used to measure all pitched and batted ball characteristics, including speeds, pitcher movements, pitch type, location at the batter, and direction of hit" (Col 3, Lines 54-59). "FIGS. 11A to 11D depict a variety of batter images captured according to the invention along with statistical data superimposed thereon" (Col 6, Lines 46-48). The claimed limitation of "a storage unit segmenting the plural pieces of continuous picture data according to the common segmentation information, associating each piece of picture data obtained by segmenting the data with the corresponding retrieval data, and storing the associated data" is also met Figures 2, 7 and 11A-D. "Each device is continuously monitored by the computer system 110, and once the devices are set out in the evaluation area, all devices make completely automatic measurements of each

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pitch and hit without any action of the operator" (Col 3, Lines 48-52). "The sequence of video pictures or frames seen by the side-view camera for ball position 0 through 5 is shown in the sketches in the bottom of FIG. 2. In frame 0 the camera sees the background but no ball. In all other frames, the camera sees both the background and the ball, with the ball appearing in different locations as it passes by the camera. In frames 1, 2 and 3, the pitch passes in front of the camera from right to left. The batted ball, seen in frames 4 and 5, pass from left to right" (Col 4, Lines 17-25).

In regard to claim 8, the claimed limitation of "said plural pieces of continuous picture data are different from each other and obtained by capturing the subject from plural directions" is met by Figure 1. "The video cameras are preferably high-speed digital type cameras facilitating recording at a rate of 1,000 frames per second or greater. Such cameras, which may be purchased from the Kodak Company as Model Ektapro may be used to measure all pitched and batted ball characteristics, including speeds, pitcher movements, pitch type, location at the batter, and direction of hit. The cameras may be set up to view the field in front of the batter from overhead and from the side, as shown in FIG. 1" (Col 3, Lines 54-61).

In regard to claims 9-11, the claimed limitation of "said subject is a player of a ball game being performed, and said retrieval data contains information about a delivery of a ball", "said subject is a player of a ball game being performed, and said retrieval data contains information about a course of a ball" and "said subject is a player of a ball game being performed, and said retrieval data contains information about a play state in the play of the ball game" are met by Figure 1. "In a baseball environment, then, the

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system may be used to provide all relevant information on how the hitter and/or pitcher move, including all relevant steps associated with the pitch and hit of the ball, including all relevant movements of the ball itself" (Col 3, Lines 35-39). Furthermore, "the invention may be used to surreptitiously analyze the performance of players without them knowing it, for example, on an opposing team" (Col 6, Lines 50-53).

In regard to claims 12 and 13, the claimed limitation of "said segmentation information comprises a record starting time and a record ending time which are absolute times" and "said subject a player of ball game being performed, and said record starting time said record ending time are record starting time and a record ending time each delivery of a ball" are met by Figures 11A-D. Figure 10 depicts the relative recorded times with respect to the windup. Figures 11A-D shows the recorded absolute time in the upper left corner.

In regard to claim 14, the claimed limitation of "an input unit inputting retrieval data about picture data continuous in time series about a subject, the retrieval data containing segmentation information indicating a time slice for each piece of the picture data" is met by Figures 2, 7 and 11A-D. "The video cameras are preferably high-speed digital type cameras facilitating recording at a rate of 1,000 frames per second or greater. Such cameras, which may be purchased from the Kodak Company as Model Ektapro may be used to measure all pitched and batted ball characteristics, including speeds, pitcher movements, pitch type, location at the batter, and direction of hit" (Col 3, Lines 54-59). "FIGS. 11A to 11D depict a variety of batter images captured according to the invention along with statistical data superimposed thereon" (Col 6, Lines 46-48).

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The claimed limitation of "a storage unit segmenting the continuous picture data according the segmentation information, storing the segmented picture data after being associated with the retrieval data" is also met Figures 2, 7 and 11A-D. "Each device is continuously monitored by the computer system 110, and once the devices are set out in the evaluation area, all devices make completely automatic measurements of each pitch and hit without any action of the operator" (Col 3, Lines 48-52). "The sequence of video pictures or frames seen by the side-view camera for ball position 0 through 5 is shown in the sketches in the bottom of FIG. 2. In frame 0 the camera sees the background but no ball. In all other frames, the camera sees both the background and the ball, with the ball appearing in different locations as it passes by the camera. In frames 1, 2 and 3, the pitch passes in front of the camera from right to left. The batted ball, seen in frames 4 and 5, pass from left to right" (Col 4, Lines 17-25).

In regard to claim 15, the claimed limitation of "an input unit inputting retrieval data about plural different pieces picture data continuous time series about subject, the retrieval data containing common segmentation information indicating time slice common the plural different pieces picture data" is met by Figures 2, 7 and 11A-D. "The video cameras are preferably high-speed digital type cameras facilitating recording at a rate of 1,000 frames per second or greater. Such cameras, which may be purchased from the Kodak Company as Model Ektapro may be used to measure all pitched and batted ball characteristics, including speeds, pitcher movements, pitch type, location at the batter, and direction of hit" (Col 3, Lines 54-59). "FIGS. 11A to 11D depict a variety of batter images captured according to the invention along with statistical data

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superimposed thereon" (Col 6, Lines 46-48). The claimed limitation of "storage segmenting continuous picture data according common segmentation information, and storing the segmented picture after being associated With the retrieval data" is also met Figures 2, 7 and 11A-D. "Each device is continuously monitored by the computer system 110, and once the devices are set out in the evaluation area, all devices make completely automatic measurements of each pitch and hit without any action of the operator" (Col 3, Lines 48-52). "The sequence of video pictures or frames seen by the side-view camera for ball position 0 through 5 is shown in the sketches in the bottom of FIG. 2. In frame 0 the camera sees the background but no ball. In all other frames, the camera sees both the background and the ball, with the ball appearing in different locations as it passes by the camera. In frames 1, 2 and 3, the pitch passes in front of the camera from right to left. The batted ball, seen in frames 4 and 5, pass from left to right" (Col 4, Lines 17-25).

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as follows:
 - The Hirayama et al. (US Pat No 5,732,185) discloses a multi-scene recording medium and apparatus for reproducing data therefrom.
 - The Nagasaka et al. (US Pat No 6,195,497) discloses and associated image retrieving apparatus and method.
 - The Srinivasan et al. (US Pat No 6,357,042) discloses a method and appartus for multiplexing separately-authored metadata for insertion into a video data stream.

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 The Harris (US Pat No 4,545,576) discloses a baseball-strike indicator and trajectory analyzer and method of using same.

- The Jain et al. (US Pat No 6,463,444) discloses a video cataloger system with extensibility.
- The Boreczky et al. (US Pat No 6,366,296) discloses a media browser using multimodal analysis.
- The Boetje et al. (US Pat No 6,289,167) discloses a system for acquiring,
 reviewing, and editing sports video segments.
- The Ahmad et al. (US Pat No 6,263,507) discloses a browser for use in navigating a body of information, with particular application to browsing information represented by audiovisual data.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Manning whose telephone number is 703-305-0345. The examiner can normally be reached on M-F: 8:00 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W Miller can be reached on 703-305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JM October 28, 2004

JOHN MILLER

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600